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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

December 11, 2013

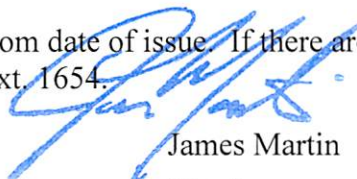
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9500532, issued to TRIAD HUNTER, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: B.F. HAWKINS #5

Farm Name: MARTIN, RONALD D. & SANDR/

**API Well Number: 47-9500532**

**Permit Type: Plugging**

Date Issued: 12/11/2013

**Promoting a healthy environment.**

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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1. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
2. Well work activities shall not constitute a hazard to the safety of persons.

9500532P

WW-4B  
Rev. 2/01

1) Date September 19, 2013  
2) Operator's  
Well No. B.F. Hawkins # 5 ( 100 ac. )  
3) API Well No. 47-095 - 0532

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil X / Gas X / Liquid injection      / Waste disposal      /  
(If "Gas, Production      or Underground storage     ) Deep      / Shallow X

5) Location: Elevation 945' Watershed Elk Fork  
District Ellsworth 02 County Tyler 95 Quadrangle Porters Falls 554

6) Well Operator Triad Hunter LLC 7) Designated Agent Kimberly Arnold  
Address 125 Putnam Street Address P.O. Box 154  
Marietta, Ohio 45750 Waverly, WV

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Joe Taylor Name                       
Address 497 Claylick Road Address                       
Ripley, WV 25271

10) Work Order: The work order for the manner of plugging this well is as follows:

( SEE ATTACHMENT )

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector 

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Date OCT 10-2-13

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PLUGGING PROCEEDURE

ELK FORK FIELD

Ellsworth District, Tyler County

1. MIRU service rig, dig flow back pit, and remove pumping unit if necessary.
2. Pull tubing and rods OOH and clean hole to total depth.
3. Run 2 3/8" 8rnd tubing to the base of the shot hole or pay zone.
4. **Mix/Pump 75 sacks Class A Cement, ¼ lb. flocele/sk., 1% CaCl**, through the tubing into the shot hole ( **Plug # 1 – 88.5 cu.ft.**  ).
5. Pull tubing up to 1,000 feet and shut down for the day.
6. Lower tubing and tag the top of the cement plug. Mix additional cement to cover the shot hole if necessary.
7. Pull casing ( 5 3/16", 6 ¼", 6 5/8" )OOH, or cut-off / shoot apart casing around 500 feet above the Keener Formation or pay zone and pull it OOH.
8. RIH with 2 3/8" 8rnd tubing to the top of the cut-off casing or 500 feet above the Keener Fm./pay-zone.
9. **Mix/Pump 60 sacks Class A Cement, ¼ lb. flocele/sk., 1% CaCl** through the tubing into the annulus ( **Plug # 2 – 68 cu.ft., 200' lin. ft.**  ).
10. Pull tubing up-hole to set surface hole plug as follows: ( Assume Hole Size = 10" )

( Elevation )	(Plug Depth )	( Cement Required )	( Cubic Feet )
Below 800 feet	100'	50 sacks	54.5
800' to 900'	150'	70 sacks	82.0
900' to 1,000'	200'	95 sacks	109.0
Over 1,000 feet	250'	116 sacks	136.5
11. **Mix/Pump ( Plug # 3 ) the surface hole plug with Class A Cement, ¼ lb. flocele/sk., 1% CaCl**, through the tubing until cement is circulated to surface. Pull tubing OOH.
12. **Top load hole with Class A Cement** and install monument casing so that it is 3' above ground level.
13. Weld identification plate on monument pipe and fill monument pipe with Class A Cement.
14. RDMO service rig and surface equipment.
15. Reclaim well site and lease road.

Note! Mix / Pump gel spacers between all cement plugs.

  
10-2-13

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## (Well Information)

ELK FORK FIELD

Permit Number : 47-095-0532 Well Name : B.F. Hawkins #5 (100 Ac.)  
 District : Ellsworth County : Tyler  
 Date Drilled : August/1897 Total Depth : 1872' Elevation : 945'  
 Producing Zone : Keener Shot Hole Depth : 1832'-1859'  
 Casing Depths : 10" 255' PULLED 8 1/4" 1121' PULLED Tubing Depth : 2" 1862'  
                   6 5/8" 1775' 6 1/4" \_\_\_\_\_  
                   5 3/16" 1806' 4 7/8" \_\_\_\_\_  
 Remarks : 5 3/16" set on Pacmarco H.W. Packer @ 1785'  
               Gas @ 1832', Oil @ 1834'  
               (-887) (Shot 6 times)

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95 00532P

47-095-0532

Elev. 945'

LEASE NO. 740 ACRES 100 FARM NAME B. F. Hawkins H.No. 1951 WELL NO. 5

N. 7 S. E. W. 13 Location Made Purchased From H.C.R.  
 Civil District Ellsworth Rig Completed Date Purchased 3-1-43  
 County Tyler Dr'g Commenced 7-14-97 Sold To  
 State W.Va. Dr'g Completed 8-7-97 Date Sold  
 GAS OIL Rights Owned By Dr'g Contractor Date Abandoned

FORMATION				CASING RECORD			
Kind	Top	Bottom	Steel Line Meas.	Size	Bottom Casing Steel Line	Put in Well Tally Meas.	Pulled Tally Meas.
Oil Gas	1834 1832			10"		255	255
				8 1/2"		1121	1121
				6 1/2" 6 7/8"		1775	
				2" Tbg.		1862	
				3 1/2"		719	719
		53 1/16"	1785'	1806'			

Oil 1834  
Gas 1832

PACKERS AND SHOES			
Kind	Size	Depth Set	Date Set
H.W. Plr.	6-5/8" x 2 1/4"	1785	10-22-31
Parmaeo H.W.	6 7/8" x 5 3/16"		12-11-52

TORPEDO RECORD						
Date	No. Qts.	Size Shell	Top Shot	Bottom	Results	
9-3-97	5					
9-17-97	10					
10-11-97	20					
1-8-98	30					
6-2-98	60		1839	1859		
11-25-98	60		1832	1852		

Total Depth 1872

DRILLING DEEPER				
Commenced	Completed	Original Depth	Final Depth	Contractor

ABANDONMENT RECORD					
Filled With	From	To	PLUG		
			Size	Kind	Depth

Initial Prod. Sand ★ At Completion ★ 30 Days After ★

Oil Keener

Gas

APPROVED

Supt.

TESTS, REPORTS AND REMARKS ON REVERSE SIDE

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9500532P



Select County: (095) Tyler    Select datatypes: ☐ (Check All)

Enter Permit #: 0532

☒ Location    ☒ Production    ☒ Plugging

☒ Owner/Completion    ☒ Stratigraphy    ☒ Sample

☒ Pay/Show/Water    ☒ Logs    ☒ Btm Hole Loc

Table Descriptions  
[County Code Translations](#)  
[Permit Numbering Series](#)  
[Usage Notes](#)  
[Contact Information](#)  
[Disclaimer](#)  
[WVGES Main](#)  
["Pipeline-Plus" New](#)

WV Geological &amp; Economic Survey:

Well: County = 95 Permit = 0532

Report Time: Thursday, February 14, 2013 4:17:17 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4709500532	Tyler	532	unknown	unknown	unknown				

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR	PROP_VD	PROP_TRGT_FM
4709500532	-/-		Original Loc Completed	B F Hawkins 5						Pennzoil Company		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEFT	G_AFT	O_BEFT	O_AFT	P
4709500532	-/-	-/-			Unnamed			unclassified	unclassified	not available	unknown	unknown			0	0	0	0	0	0

There is no Pay data for this well

Production Gas Information:

API	OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4709500532	Pennzoil Company	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500532	Pennzoil Company	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500532	Pennzoil Company	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500532	Triad Resources, Inc.	2001	5	0	0	0	0	0	5	0	0	0	0	0	0
4709500532	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500532	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information:

API	OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4709500532	Pennzoil Company	1981	198	0	0	0	0	0	0	0	0	0	0	0	0
4709500532	Pennzoil Company	1982	159	0	0	0	0	0	0	0	0	0	0	0	0
4709500532	Pennzoil Company	1983	164	0	0	0	0	0	0	0	0	0	0	0	0
4709500532	Triad Resources, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500532	Triad Resources, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4709500532	Triad Resources, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

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CK 27699  
10000

9500532 P

WW-4A  
Revised 6-07

1) Date: September 19, 2013  
2) Operator's Well Number  
B.F. Hawkins # 5 ( 100 ac. )  
3) API Well No.: 47 - 095 - 0532

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Ronald D. and Sandra S. Martin</u> ✓	Name <u>N/A</u>
Address <u>RR 5 Box 343 Chase Lane</u>	Address _____
<u>Moundsville, WV 26041</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>497 Claylick Road</u>	Name <u>N/A</u>
<u>Ripley, WV 25271</u> <i>JOZ</i>	Address _____
Telephone <u>( 304 ) 380-7469</u>	

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

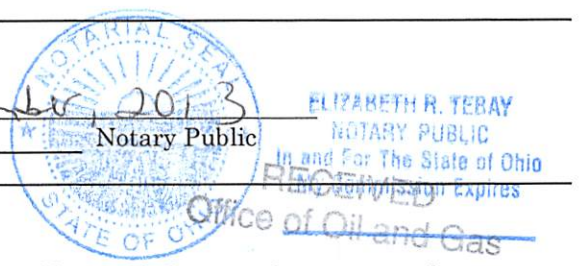
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator Triad Hunter LLC  
By: Rocky Roberts *Rocky Roberts*  
Its: Senior VP Appalachian Operations  
Address 125 Putnam Street  
Marietta, Ohio 45750  
Telephone ( 740 ) 374-2940

Subscribed and sworn before me this 24<sup>th</sup> day of September, 2013  
*Elizabeth R. Teybay*  
My Commission Expires 2-29-16  
Notary Public



**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WV Department of  
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9500532P

WW-9  
Rev. 5/08

Page 1 of 2  
API Number 47 - 095 - 0532  
Operator's Well No. B.F. Hawkins # 5 ( 100 ac. )

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Triad Hunter LLC OP Code \_\_\_\_\_

Watershed Elk Fork Quadrangle Porters Falls

Elevation 945' ( GPS 942' ) County Tyler District Ellsworth

Description of anticipated Pit Waste: saltwater, oil, gel, and freshwater

Will a synthetic liner be used in the pit? yes 20Mk.

Proposed Disposal Method For Treated Pit Wastes:

\_\_\_\_ Land Application  
☒ X Underground Injection ( UIC Permit Number UIC # 2D0855151 )  
\_\_\_\_ Reuse (at API Number \_\_\_\_\_)  
\_\_\_\_ Off Site Disposal (Supply form WW-9 for disposal location)  
\_\_\_\_ Other (Explain \_\_\_\_\_)

Proposed Work For Which Pit Will Be Used:

\_\_\_\_ Drilling  
\_\_\_\_ Workover  
\_\_\_\_ Other (Explain \_\_\_\_\_)  
\_\_\_\_ Swabbing  
☒ X Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Rocky Roberts

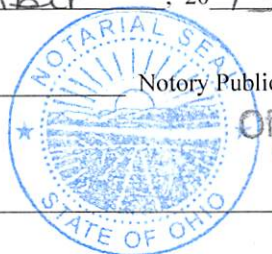
Company Official (Typed Name) Rocky Roberts

Company Official Title Senior VP Appalachian Operations

Subscribed and sworn before me this 24th day of September, 20 13

Elizabeth R. Tebay

My commission expires 2-29-16

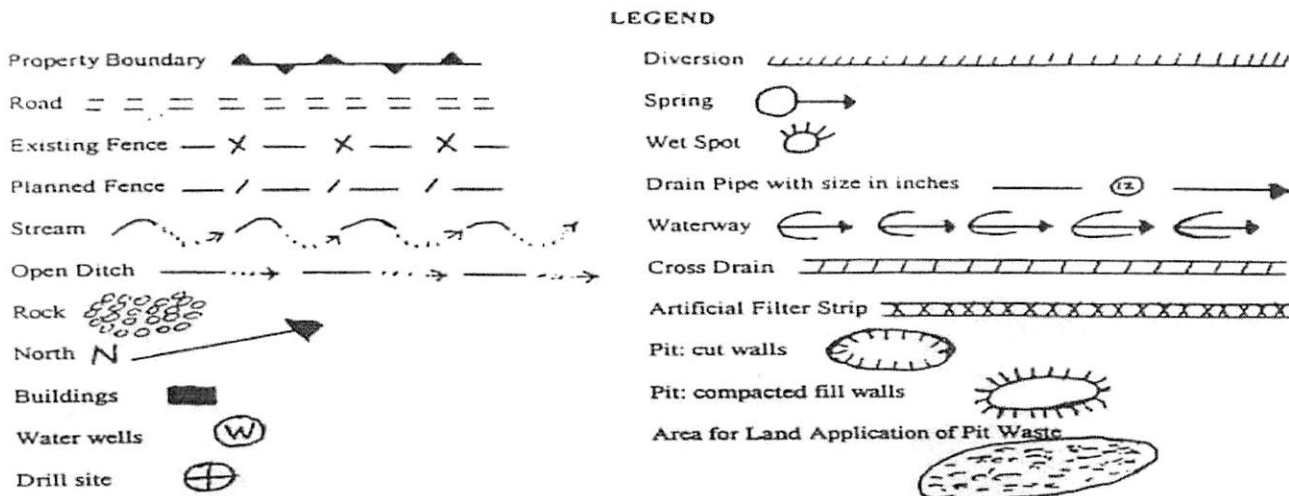


Notary Public

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ELIZABETH R. TEBAY  
Office of Oil and Gas  
In and For The State of Ohio  
My Commission Expires  
2-29-16

WV Department of  
Environmental Protection

Form WW-9

Operator's Well No. B.F. Hawkins # 5

Proposed Revegetation Treatment: Acres Disturbed One +/- Prevegetation pH 5.5

Lime Two (2) Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)

Mulch 90 - 100 bales / acre Tons/acre

## Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	30%	Orchard Grass	30%
Rye ( Annual & BT )	35%	Rye ( Annual & BT )	35%
Timothy ( Climax )	25%	Timothy ( Climax )	25%
Clover ( Medium Red )	10%	Clover ( Medium Red )	10%

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

Comments: \_\_\_\_\_

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Title: Inspector

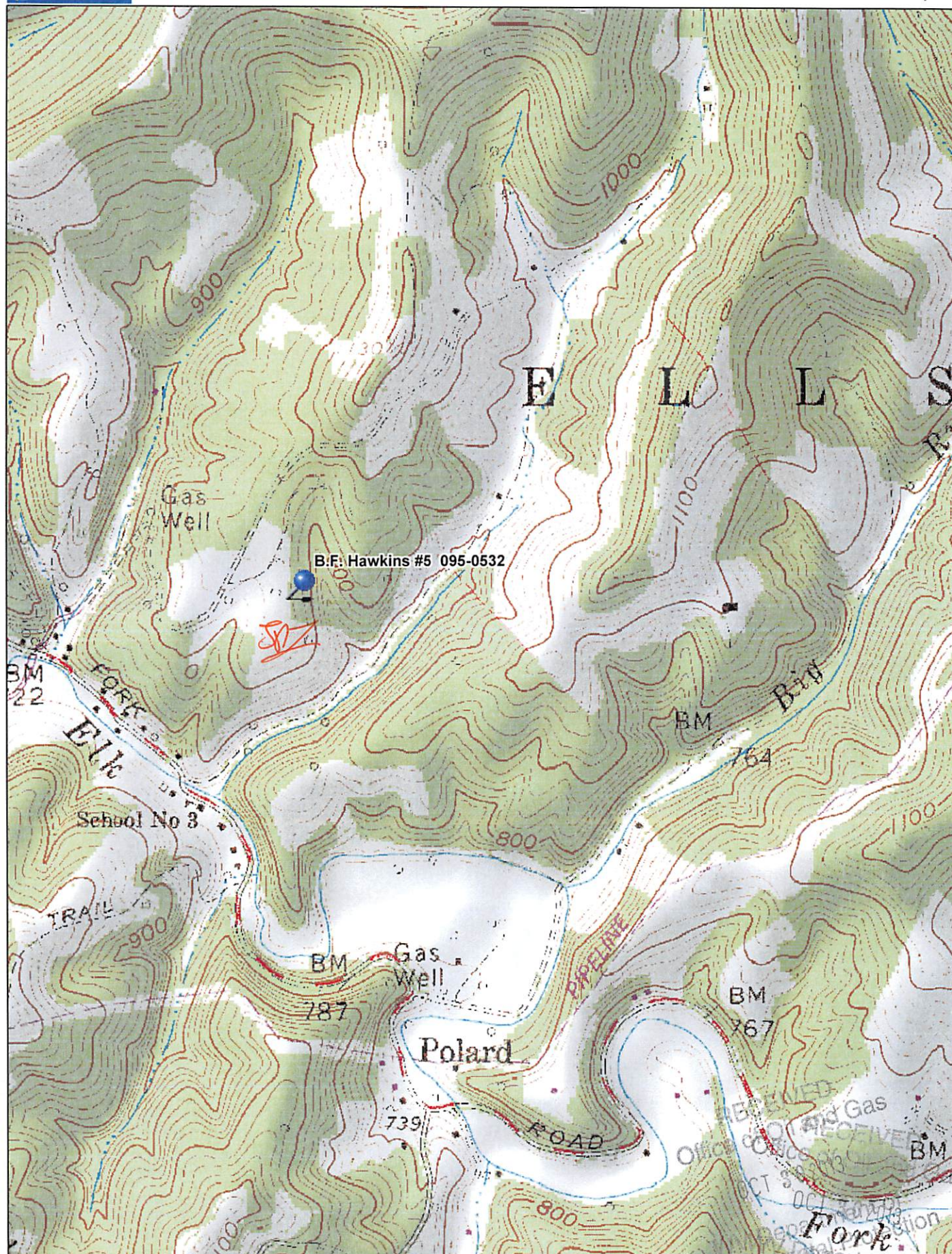
Date: 10-2-13

OCT 30 2013

Field Reviewed? ( X ) Yes ( ) No

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Data use subject to license.

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www.delorme.com



Scale 1" = 12,000'

0 100 200 300 400 500 600 700 800 900 1000

1" = 1,000.0 ft Data Zoom 13-5



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-095-0532 WELL NO.: 5  
FARM NAME: B.F. Hawkins  
RESPONSIBLE PARTY NAME: Triad Hunter LLC  
COUNTY: Tyler DISTRICT: Ellsworth  
QUADRANGLE: Porters Falls  
SURFACE OWNER: Ronald D. and Sandra S. Martin  
ROYALTY OWNER: Union National Bank (Trustees)  
S. Austin Smith & C. Burke Morris  
UTM GPS NORTHING: 4375858.5298237  
UTM GPS EASTING: 512713.85039729 GPS ELEVATION: 942'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS \_\_\_\_: Post Processed Differential \_\_\_\_

Real-Time Differential \_\_\_\_

Mapping Grade GPS X: Post Processed Differential X

Real-Time Differential \_\_\_\_

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Bm Imeltzer  
Signature

Geologist  
Title

4/15/2013  
Date

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